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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|--|---------------|----------------------|-------------------------|-----------------------|--|
| 09/765,226 | 01/18/2001 | Baining Liu | 101215-55 | 7377 | |
| 75 | 90 09/25/2002 | | | | |
| Bruce S. Londa | | | EXAMINER | | |
| NORRIS, McLAUGHLIN & MARCUS, P.A 30th Floor NGUYEN, TUAN M | | | | TUAN M | |
| 220 East 42nd S New York, NY | | | ART UNIT | ART UNIT PAPER NUMBER | |
| | | | 2828 | | |
| | | | DATE MAILED: 00/25/2002 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | Application No. | Applicant(s) | THE THE PARTY OF T |
| | 09/765,226 | LIU ET AL. | |
| Office Action Summary | Examiner | Art Unit | |
| | Tuan M Nguyen | 2828 | |
| The MAILING DATE of this c mmunication ap | pears on the cover sheet w | ith the correspondence address | |
| A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by staturent of the period for reply will of the period for reply will of the period for reply will by staturent of the period for reply will be period for reply will be staturent of the period for reply will be period for reply will be set or extended period for reply will be period fo | | reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communic BANDONED (35 U.S.C. § 133). | cation. |
| 1) Responsive to communication(s) filed on 01: | <u>-18-01</u> . | | |
| 2a) ☐ This action is FINAL . 2b) ☑ T | his action is non-final. | | |
| 3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims | | | rits is |
| 4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the application | ation. | | |
| 4a) Of the above claim(s) is/are withdra | awn from consideration. | | |
| 5) Claim(s) is/are allowed. | | 0.4 | |
| 6)⊠ Claim(s) <u>1 and 2</u> is/are rejected. | | Part | |
| 7) Claim(s) is/are objected to. | | PAUL IP | |
| 8) Claim(s) are subject to restriction and/ Application Papers | or election requirement. | SUPERVISORY PATENT EXAMINITECHNOLOGY CENTER 2800 | ER |
| 9) The specification is objected to by the Examin | er. | | |
| 10)☐ The drawing(s) filed on is/are: a)☐ acce | | the Examiner. | |
| Applicant may not request that any objection to the | • | | |
| 11) The proposed drawing correction filed on | = : : | | |
| If approved, corrected drawings are required in re | eply to this Office action. | | |
| 12) The oath or declaration is objected to by the E | xaminer. | | |
| Priority under 35 U.S.C. §§ 119 and 120 | | | |
| 13) Acknowledgment is made of a claim for foreign | gn priority under 35 U.S.C. | § 119(a)-(d) or (f). | |
| a) ☐ All b) ☐ Some * c) ☐ None of: | | | |
| Certified copies of the priority document | nts have been received. | | |
| 2. Certified copies of the priority documen | nts have been received in A | Application No | |
| 3. Copies of the certified copies of the pricapplication from the International B* See the attached detailed Office action for a lis | ureau (PCT Rule 17.2(a)). | _ | ; |
| 14) Acknowledgment is made of a claim for domes | tic priority under 35 U.S.C. | § 119(e) (to a provisional appli | cation). |
| a) The translation of the foreign language pr 15) Acknowledgment is made of a claim for domes | • • • | | |
| Attachment(s) | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) | 5) Notice of | Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) | |
| S. Patent and Trademark Office | | | |

DETAILED ACTION

Drawings

1. The drawings (figs. 1-2) are objected for minor informalities. The figures 1-2 are not labeled as required by 37 CFR 1.83(a). Applicant is required to submit a drawing correction for approval as require by rule 37 CFR 1.123.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-2 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, recites a frequency converted laser apparatus using frequency converting crystals comprising an optical pumping source that produces fundamental laser radiation; an external resonator cavity having one frequency conversion crystal within said resonant cavity; or just beam path frequency converting crystals where the beam path direction of the crystals is checked according to the best output powered before installation. The claim fails to provide sufficient means or any structure for a frequency converted laser. The claim also recite "or just beam path" it is not clear what is "or just beam path" means. The claim also recites "according to the best output power before installation" it is unclear what is "the best output power" means, which render the claim confusing, vague and indefinite.

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Claim 2, recites where the "to-be-used" direction of said frequency conversion crystal in the laser. It is not clear what is "well defined or clearly marked" means, which render the claim confusing, vague and indefinite.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

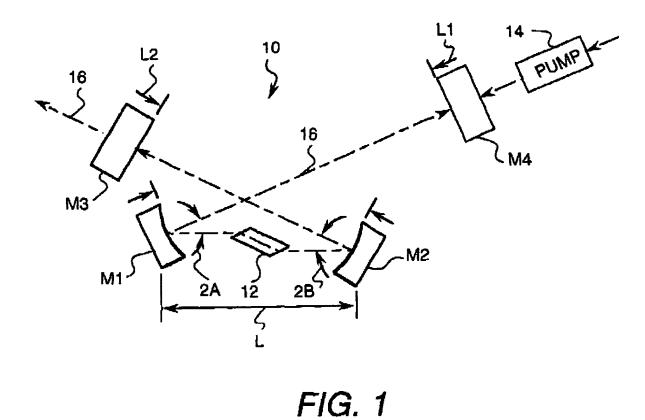
(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Staver et al (US patent 5,953,354).

With respect to claims 1-2, Staver et al disclose laser resonator optical alignment comprising a laser cavity (10) is consider as a resonator cavity, an optical pump source (14), a laser medium (12) is consider as conversional laser crystal or a conventional Brewster angle, note cols 4-5, see fig. 1 below.

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Citation Of The Pertinent References

4. The prior art made of record and not relied upon us considered pertinent to applicant's disclose.

The patent to Stultz (US patent 5,687,186) discloses eyesafe laser transmitter with single resonator cavity for both pump laser and optical parameter oscillator.

The patent to Geiger (US patent 5,117,126) discloses stacked optical parameter oscillator.

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Communication Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan M Nguyen whose telephone number is (703) 306-0247. The examiner can normally be reached on 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 306-5511 for regular communications and (703) 306-5511 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Paul Ip SPE

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TMN September 11, 2002